

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-39 (cancelled).

40 (currently amended). A process for disrupting a filter cake in an underground formation, which process comprises:

(a) incorporating into a drilling fluid (i) a solid polymer capable of being converted by hydrolysis into one or more organic acids, and (ii) a viscosifying agent;

(b) using the drilling fluid to drill a wellbore into the underground formation such that the solid polymer in the drilling fluid contributes to the formation of a filter cake; ~~and~~

(c) displacing the drilling fluid with a fluid comprising one or more polymer breakers; and

~~(e~~ d) allowing the solid polymer to hydrolyse in the presence of water and the polymer breaker to disrupt the integrity of the filter cake.

41 (previously presented). A process according to claim 40 wherein the solid polymer is a polyester.

42 (previously presented). A process according to claim 40 wherein the solid polymer is an aliphatic polyester.

43. (previously presented). A process according to claim 40 wherein the solid polymer is a polymer which comprises one or more of lactic acid, lactide, glycolic acid, glycolide, caprolactone and (optionally) other hydroxy, carboxylic acid or hydroxy-carboxylic acid compounds which may condense with lactic acid, lactide, glycolic acid, glycolide or caprolactone.

44 (previously presented). A process according to claim 40 wherein the solid polymer is a polymer which produces one or more organic acids on hydrolysis.

45 (previously presented). A process according to claim 40 wherein the solid polymer is a polymer which produces lactic acid or glycolic acid on hydrolysis.

46 (previously presented). A process according to claim 40 wherein the solid polymer is in the form of a sphere, cylinder, cuboid, fibre, powder or bead, or other configuration.

47 (previously presented). A process according to claim 40 wherein the acid produced by hydrolysis of the solid polymer dissolves acid soluble material present in the filter cake or adjacent formation.

48 (previously presented). A process according to claim 40 wherein the drilling fluid comprises the solid polymer in an amount of from 1 to 25% v/v.

49 (previously presented). A process according to claim 40 wherein the drilling fluid further comprises a polymer breaker or the solid polymer further comprises a polymer breaker.

50 (cancelled).

51 (previously presented). A process according to claim 49 wherein the polymer breaker is a hydrolase enzyme.

52 (previously presented). A process according to claim 49 wherein the polymer breaker is a polysaccharide hydrolysing enzyme.

53 (previously presented). A process according to claim 49 wherein the polymer breaker is an enzyme which can hydrolyse starch, xanthan, cellulose, guar, scleroglucan or succinoglycan or a derivative of any one of these polymers.

54-55 (cancelled).

56 (previously presented). A process according to claim 49 wherein the polymer breaker is in the form of a delayed release preparation.

57 (previously presented). A process according to claim 49 wherein the or each polymer breaker is incorporated into the solid polymer by (a) encapsulation, to allow its

or their controlled release coincident with or after acid production; or (b) dissolution or dispersion, to allow its or their controlled release coincident with acid production.

58-59 (cancelled).

60 (previously presented). A process according to claim 40 wherein the drilling fluid further comprises calcium sulphate as a bridging agent.

61 (previously presented). A process according to claim 49 wherein the polymer breaker is present in an amount sufficient to further disrupt the integrity of the filter cake.

62 (previously presented). A process according to claim 40 wherein the underground formation contains hydrocarbon or water and wherein the process further comprises recovering a hydrocarbon or water from the treated formation.

63 (previously presented). A process according to claim 40 wherein the solid polymer further comprises one or more other materials incorporated into the solid polymer by dissolution dispersion or encapsulation.

64 (previously presented). A process according to claim 63 wherein the one or more other materials are selected from polymer breakers, specific gravity adjusting materials, calcium peroxide and ammonium bifluoride.

65-70 (cancelled).

71 (previously presented). A process according to claim 40 wherein the drilling fluid is water-based, oil-based, hydrocarbon-based or liquid ester- based.

72 (previously presented). A process according to claim 40 wherein the process further comprises displacing the drilling fluid with a fluid comprising a conventional filter cake disrupting agent other than a polymer breaker.

73 (previously presented). A process according to claim 72 wherein the conventional filter cake disrupting agent is selected from acids, combinations of esters and ester hydrolysing enzymes, and chelating agents.

74 (previously presented). A process according to claim 72 or 73 wherein the fluid used to displace the drilling fluid is an aqueous fluid.

75 (currently amended). A process for disrupting a filter cake in an underground formation, which process comprises:

(a) incorporating into a drilling fluid (i) a solid polymer capable of being converted by hydrolysis into one or more organic acids, and (ii) a viscosifying agent;

(b) using the drilling fluid to drill a wellbore into the underground formation such that the solid polymer in the drilling fluid contributes to the formation of a filter cake;

(c) allowing the solid polymer to hydrolyse in the presence of water and to disrupt the integrity of the filter cake; and

(d) displacing the drilling fluid with a fluid comprising a polymer breaker;

and wherein the process further comprises displacing the drilling fluid with a fluid comprising a conventional filter cake disrupting agent other than a polymer breaker.

76 (previously presented). A process according to claim 75 wherein the drilling fluid is water-based, oil based, hydrocarbon-based or liquid ester-based.

77 (canceled).

78 (currently amended). A process according to claim ~~77~~ 75 wherein the conventional filter cake disrupting agent is selected from acids, combinations of esters and ester hydrolysing enzymes, and chelating agents.

79 (previously presented). A process according to claim 75 wherein the fluid used to displace the drilling fluid is an aqueous fluid.

80 (new). A process according to claim 40 which further comprises using one or more conventional filter cake disrupting agents other than polymer breakers.

81 (new). A process according to claim 80 wherein the or each conventional filter cake disrupting agent is selected from acids, combinations of esters and ester hydrolysing enzymes, and chelating agents.

82 (new). A process according to claim 80 wherein the or each conventional filter cake disrupting agent is included in the fluid used to displace the drilling fluid.